User's Manual

638BA

Bluetooth®-Enabled MP3-Compatible In-Dash CD Receiver with Front Panel USB Port and AUX Input

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9.2006

tech support: www.bossaudio.com/support

BOSS AUDIO SYSTEMS

BOSS Audio Systems • 3451 Lunar Court • Oxnard, CA 93030
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800.999.1236

3030

BOSS AUDIO SYSTEMS

Congratulations on your purchase of a BOSS AUDIO SYSTEMS CD Receiver. It has been designed, engineered and manufactured to bring you the highest level of performance and quality, and will afford you years of listening pleasure.

Thank you for making BOSS AUDIO SYSTEMS your choice for car audio entertainment!

638BA

MP3-Compatible AM/FM CD Receiver

USER'S MANUAL

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Installation

Before installing your new BOSS AUDIO SYSTEMS CD Receiver, please review the items below carefully.

Choose a mounting location where the unit will not distract or otherwise interfere with the driver's ability to control the vehicle.

Before final installation, temporarily connect the wiring, check it to ensure that it has been connected properly, and test the unit to make sure it is working correctly.

Use only the installation parts and hardware provided with the unit to ensure proper installation. Using other parts can cause malfunction and possible damage to your BOSS AUDIO SYSTEMS CD receiver.

If installation requires drilling holes or other modifications to the vehicle, consult with your nearest dealer or professional car audio installer.

Do not install this unit at an angle in excess of 30º from horizontal, as it may affect performance.

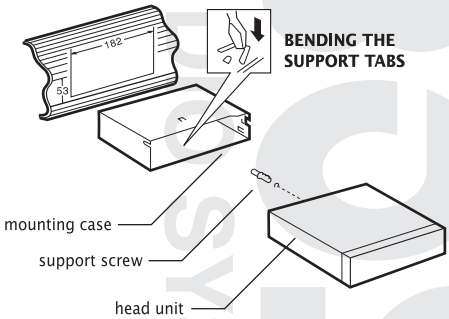
Avoid installing the unit in a location which is subject to high temperatures, direct sunlight, hot air from such sources as heaters or exhaust lines, or where it will be subject to contact with dust, dirt, moisture or excessive vibration.

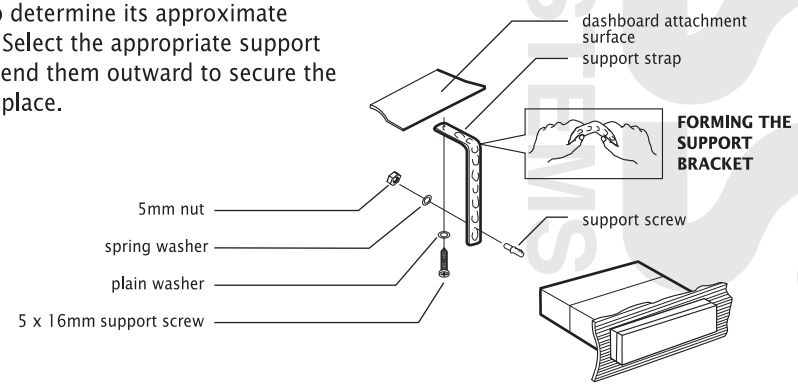
DIN front mount installation

For details about installing the head unit, read the instructions below and refer to the diagrams for further clarification.

Insert and tighten the “headless” support screw into the back of the head unit where shown.

Insert the mounting case for the head unit into the dashboard. Inspect the dashboard material to determine its approximate thickness. Select the appropriate support tabs and bend them outward to secure the bracket in place.



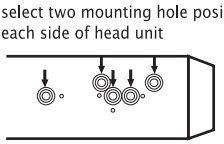


Bend the backstrap to conform to the mounting case and the dashboard surface to which you plan to secure the backstrap. Slide one of the utility holes on the backstrap onto the support screw and fasten it with the spring washer and nut provided.

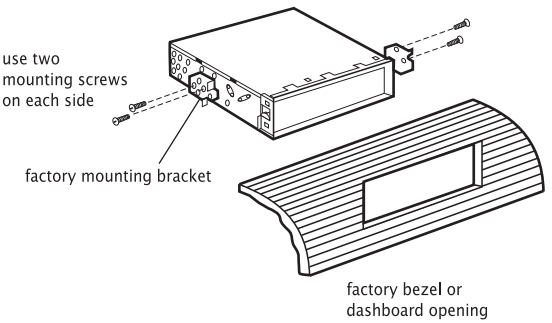
Using the 5 x 16mm screw and the plain washer, secure the backstrap to the dashboard surface as shown in the diagram. Tighten secure, and check the overall mounting to be sure it is safe and will not release in an emergency stop or other sudden movement of the vehicle.

DIN rear mount installation (uses factory radio mounting bracket)

Select a position on the head unit housing where the screw holes of the factory radio bracket align with the threaded screw holes on sides of the head unit. Insert screws in two such locations on each side, and tighten securely.



NOTE: For the rear-mount installation, do not use the trim piece, backstrap or mounting case.

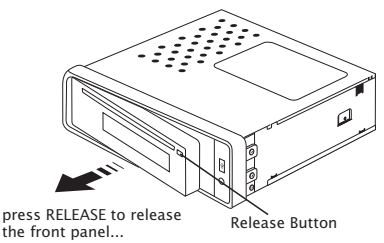


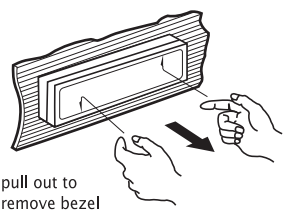
Removing the head unit

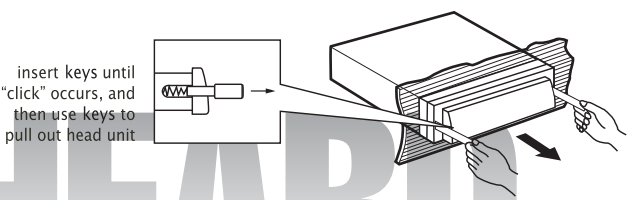
Before removing the bezel, press the RELEASE button to remove the front panel.

Insert your fingers into the groove along the right side or the left side of the frame (not both!) and pull out to remove the bezel.

Then, insert the keys supplied with the head unit into the grooves on both sides of the unit as shown in the drawing until you feel a “click.” You can now use the keys to pull the unit from the dashboard.





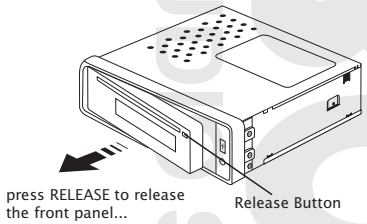


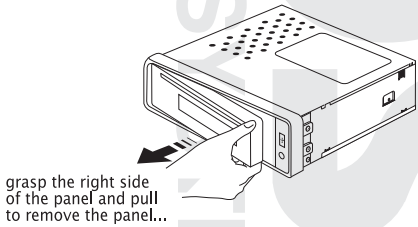
Detaching the front panel

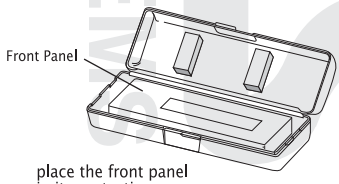
Press the RELEASE button to release the panel from the right side of the head unit.

Grasp the right side of the panel and pull to remove it.

Immediately place the front panel in its protective case for safe and clean storage.







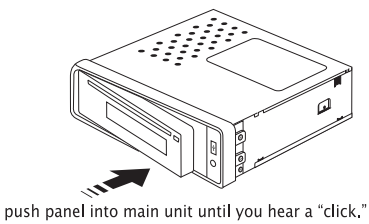
Be careful when handling the front panel!

1. Do not drop front panel.
2. When detaching or reinstalling, do not put pressure on the display.
3. Do not touch the contacts on the panel or the main unit body – doing so may result in poor electrical contact.
4. Dirt or foreign substances can be removed with a clean, dry cloth.
5. Do not expose the panel to high temperaturees or direct sunlight.
6. Do not permit volatile agents or solvents to contact the front panel.
7. Do not attempt to disassemble the front panel.

Reinstalling the front panel

Push the front panel into the main body. You should hear a “click.”

NOTE: If the panel fails to lock into position properly, the function of some controls may be impaired, and some segments of the display may not become illuminated. If this occurs, press RELEASE and reinstall the front panel.



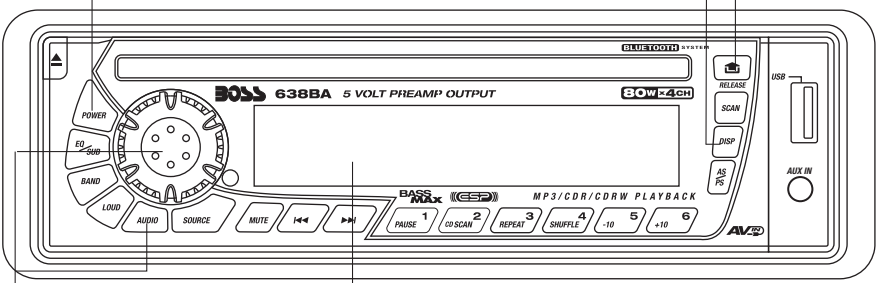
Front panel controls

GENERAL CONTROLS

POWER Press any button to turn unit ON. To turn head unit off, press and hold POWER.

RELEASE Press to release and remove the front panel.

DISP Selects radio frequency or clock display.
To set the clock:
1. With clock display selected, hold down (DISP) button until clock display starts flashing.
2. Rotating VOL left to change minutes, VOL right to change hours.
3. Press (DISP) button to start clock



The Liquid Crystal Display will display the current state of the unit.

BEEP MODE When press the AUDIO button for more than 2 seconds, it is activated as selecting mode of these function.

BEEP ON: BEEP sound can hear from speaker when the buttons are pressed.

BE HEARD

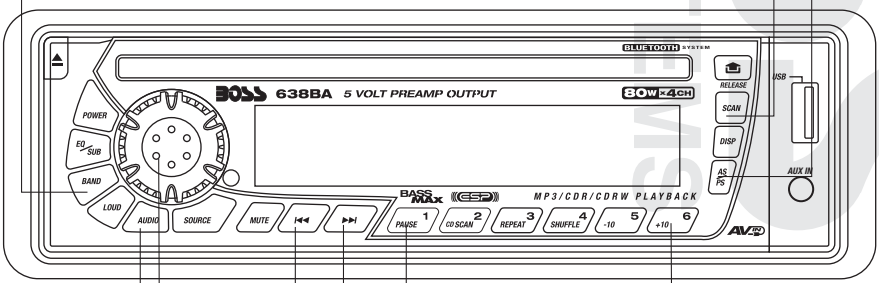
RADIO CONTROLS

AS/PS Select six strong stations and store them in current band.
1. Select a band (if needed)
2. Hold A/PS button for more than three seconds. The new stations replace stations already stored in that band.

Preset Scan
Scan stations stored in current band
1. Select a band (if needed)
2. Touch A/PS for more than one second but less than three seconds. Radio pauses for five seconds at each station. Touch A/PS again to stop scanning when desired station is reached.

SCAN This key is operated as RADIO SCAN. The operation is similar as normal search but different thing is holding 5 seconds on every station detected in RADIO SCAN mode.

BAND Push this switch to select the desired band. Selection is made in regular sequence as FM-AM.



STATION PRESETS Six numbered preset button store and recall stations for each band.
Storing a station:
1. Select a band (if needed)
2. Select a station
3. Hold a preset button longer than one second. Preset station number appears in the display when station is saved.

Recall a station:
1. Select band (if needed)
2. Press a preset button for less than one second to select stored station.

TUNE BUTTONS When pressed for less than 1 second, these keys operate as manual tuning mode.
When pressed longer than 1 sec., they are operated as SEEK tuning mode. If the keys are not pressed for 3 seconds, they will return to SEEK mode again.

SETTINGS MODE When press this button for more than 2 seconds, it is activated as selecting mode of these function.

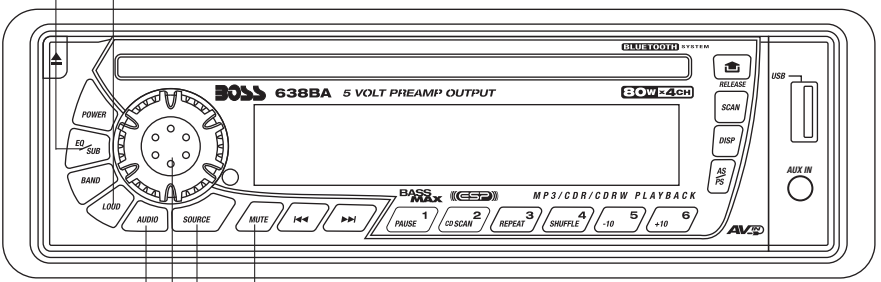
SEEK 1: When SEEK 1 mode is activated, AUTO SEEK SCAN is stopped when station is detected even user still push SEEK button.
SEEK 2: Auto SEEK SCAN is not stopped even station is detected if user push SEEK button. When release this SEEK button, then stop when station is detected.

Front panel controls

AUDIO CONTROLS

EQ Press repeatedly to cycle through five modes: POP M, ROCK M, CLASS, FLAT M or DSP OFF.
SUB Press and hold to engage subwoofer output.

LOUD Press this button to increase the level of bass output.

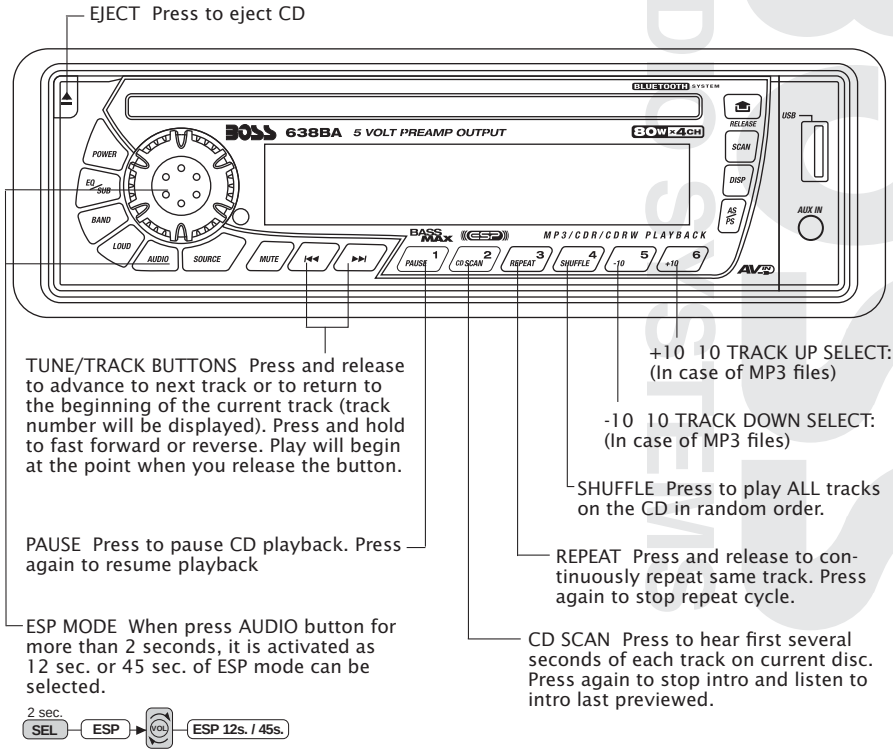


MUTE Press to silence the receiver. Press again to return to normal operation.

SOURCE By pressing this key, user can select AUX/TUNER/CD-MP3/USB mode.

AUDIO BUTTON and ROTARY CONTROL Press the button repeatedly to access Volume, Bass, Treble, Balance and Fader functions. Then use the knob to adjust the selected function.

CD/MP3 PLAYBACK CONTROLS


EJECT Press to eject CD
BOSS 638BA 5 VOLT PREAMP OUTPUT
80W×4CH
BLUETOOTH SYSTEM
RELEASE
SCAN
DISP
AS PS
USB
AUX IN
POWER
EQ SUB
BAND
LOUD
AUDIO
SOURCE
MUTE
BASS MAX
ESP
MP3/CDR/CDRW PLAYBACK
PAUSE 1
CD SCAN 2
REPEAT 3
SHUFFLE 4
-10 5
+10 6
AVP
TUNE/TRACK BUTTONS Press and release to advance to next track or to return to the beginning of the current track (track number will be displayed). Press and hold to fast forward or reverse. Play will begin at the point when you release the button.
+10 10 TRACK UP SELECT: (In case of MP3 files)
-10 10 TRACK DOWN SELECT: (In case of MP3 files)
SHUFFLE Press to play ALL tracks on the CD in random order.
PAUSE Press to pause CD playback. Press again to resume playback
REPEAT Press and release to continuously repeat same track. Press again to stop repeat cycle.
ESP MODE When press AUDIO button for more than 2 seconds, it is activated as 12 sec. or 45 sec. of ESP mode can be selected.
CD SCAN Press to hear first several seconds of each track on current disc. Press again to stop intro and listen to intro last previewed.
2 sec.
SEL
ESP
VOL
ESP 12s. / 45s.

CD/MP3 Operation

To PLAY a CD gently insert a CD with the label side up into the disc slot. It will automatically load and begin playing the first track.

To EJECT a CD press EJECT to stop the CD playback and eject the CD from the slot. The receiver will automaticvally switch to radio mode.

To PAUSE a CD press PAUSE to stop playback temporarily. Press again to resume playback.

To SKIP TRACKS press the ⏭ or ⏮ key to choose the next or preceding track.

To FAST FORWARD or REVERSE press and hold the ⏭ or ⏮ key to the desired location on the disc. Releasing the button starts playback at the location.

To REPEAT a TRACK press REPEAT to continuously repeat the current track. Press again to return to normal playback mode.

To PREVIEW ALL TRACKS press CD SCAN to play the first several seconds of each track. Press it again to stop an play the current track being previewed.

To PLAY TRACKS IN RANDOM ORDER press SHUF to play ALL tracks on the CD in random mode. Press again to cancel this function.

Front panel controls

How to select MP3 files

Searching Track:

- Press “AS/PS”, then search track is activated.
- Press “AUDIO” button, then the first digit will flash.
- Rotary “VOL knob to right or left”, select first digit desired.
- Press “AUDIO” button, then the first digit is fixed and second digit will flash.
- Rotary “VOL knob to right or left”, select 2’nd 3’rd respectively.
- Then automatically the song selected will start.

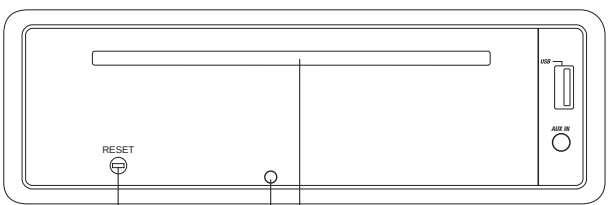
Searching File Name:

- Press “AS/PS” twice, then file search is activated.
- Press “AUDIO” button, then the first directory is displayed.
- Rotary “VOL knob to right or left”, you can select the desired directory.
- Press “AUDIO” button again, then the directory is fixed and the first file name is displayed.
- Rotary “VOL knob to right or left”, you can select the file you want.
- Press “AUDIO” button, then the song selected will start.

Searching Character:

- Press “AS/PS” 3 times, then character search mode is activated.
- Press “AUDIO” button, then “A” character is displayed.
- Rotary “VOL knob to right or left”, you can select the desired letter.
- Press “AUDIO” button longer than 2 sec.
- The song with the same character you selected is displayed.
- Rotary “VOL knob to right or left”, you can select the desired song.
- Press “AUDIO” button, then the song selected will start.

Controls behind faceplate



CD Loading/unloading slot

LED This LED flashes when the faceplate is removed.

RESET Press this button with a ballpoint pen or other thin object.
The reset button is to be activated for the following reason:
Initial installation of the unit when all wiring is completed.
All the function button do not operate.
Error symbol on the display.

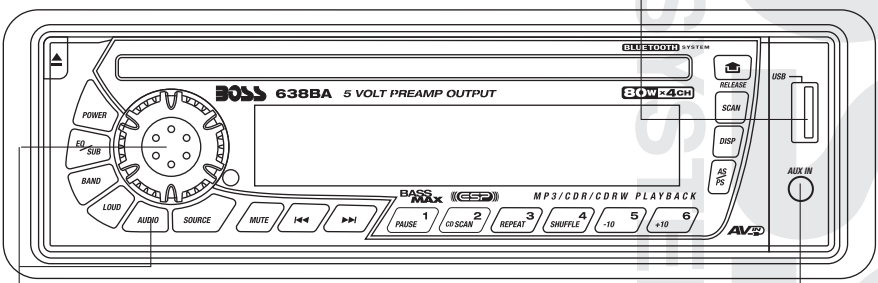
NOTE: If the unit does not function properly after you have pressed the RESET button, clean the socket and the connector on the rear of the front panel with a cotton swab soaked in isopropyl alcohol and try again.

BE HEARD

USB and front side AUX IN operations

USB Port
Enhanced control of connected Portable Media such as “iPod**”, Flash Drives and digital MP3 Players, by using function keys on the main unit or the remote control unit.
This unit features the latest ID3 Tag support, which allows you to see the song’s name and which folder it’s located in, on the LCD display.

For iPod Use: ** You will need to have a IPC-3 cable to make this unit control an iPod.



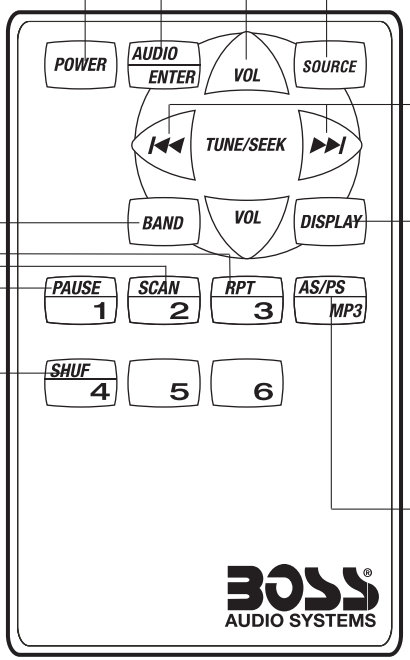
AUX IN
Convenient easy to use front “AUX IN” input jack, allows easy connection of Portable Media and other digital MP3 Players.

CD MULTI SECTION MODE When press AUDIO button for more than 2 seconds, it is activated as selecting mode of these function.

CD MULTI ON/OFF mode is selected by rotary VOL left or right
CD MULTI ON: Read multi section CD.
CD MULTI OFF: Read first section only.

**** IMPORTANT INFORMATION:***
BECAUSE OF THE GREAT VARIETY OF PRODUCTS WITH USB PORTS AND THEIR SOMETIMES QUITE MANUFACTURER-SPECIFIC FUNCTIONS WE CAN NEITHER GUARANTEE THAT ALL DEVICES WILL BE RECOGNIZED NOR THAT ALL OPERATING OPTIONS THAT ARE POSSIBLE IN THEORY WILL ACTUALLY WORK

Remote controls functions



POWER Use to turn the CD receiver ON or OFF

SEL Turning the VOL knob Right or Left, you can adjust VOL/BASS/TREB/BAL/FAD. To select other functions, press the SEL button shortly until the desired functions is shown on the display.

VOLUME Use to increase or decrease volume level.

SOURCE Press to choose desired audio source (Radio, CD or Aux in).

TUNE/SEEK ⏮ and ⏭
In Radio mode, press shortly to make manual tuning,
press and hold to engage automatic seek function.

In CD mode, press and release to advance to next
track or to return to the beginning of the current track
(track number will be displayed).
Press and hold to fast forward or reverse, play will
begin at the point when you release the button.

DISPLAY To set clock: Press and hold this button,
then the time will be flashing. By press VOL button UP adjust hours and VOL button DOWN adjust minutes.

AS/PS Use to automatically scan and place six strong stations into memory.

SHUFFLE Press to play ALL tracks on the CD in random order.

PAUSE Press to pause CD playback. Press again to resume playback.

SCAN Press this button to hear the first several seconds of each track of the disc is played. Press again to stop intro and listen to track.

REPEAT Press and release to continuously repeat same track). Press again to stop repeat cycle.

BAND Press this button to select the desired band. Selection is made in regular sequence as FM-AM.

BE HEARD

How to use Bluetooth in your Car Audio

1. You need to connect your mobile phone and car audio by pairing.
   A. Press (+) button in Bluetooth Remote Box longer than 6 seconds. The LED in Remote Box will blink fast. This mode is Pairing mode stage.
   Note: To deactivate Pairing, Press (+) again longer than 3 seconds. LED will stop blinking.
   B. Turn on the Bluetooth connection of the mobile phone. Perform Add Bluetooth device. The mobile will search for any Bluetooth devices within the range. Select “NAME_HF” and enter Passkey: “0000” to connect to the car audio. (Please refer to the instruction manual of your mobile phone for Bluetooth Pairing. Your mobile phone should have Bluetooth function otherwise can not do the pairing).

2. After successful pairing, the LED in Bluetooth Remote will blink 1-2 times every 4 sec. This unit is in active mode waiting for incoming call.

3. You can hear ring tone from the car’s speaker if there’s an incoming call. Press TALK button once to receive call. Press TALK button longer than 2 seconds will disconnect the call.

4. You can talk through Bluetooth Remote Mic and listen through car’s speaker and not through your mobile. When talking, the LED in Bluetooth Remote is always on. You can adjust speaker’s volume level using VOL +/- button.

5. To hang up, press TALK button once. Unit switch back to active mode again.

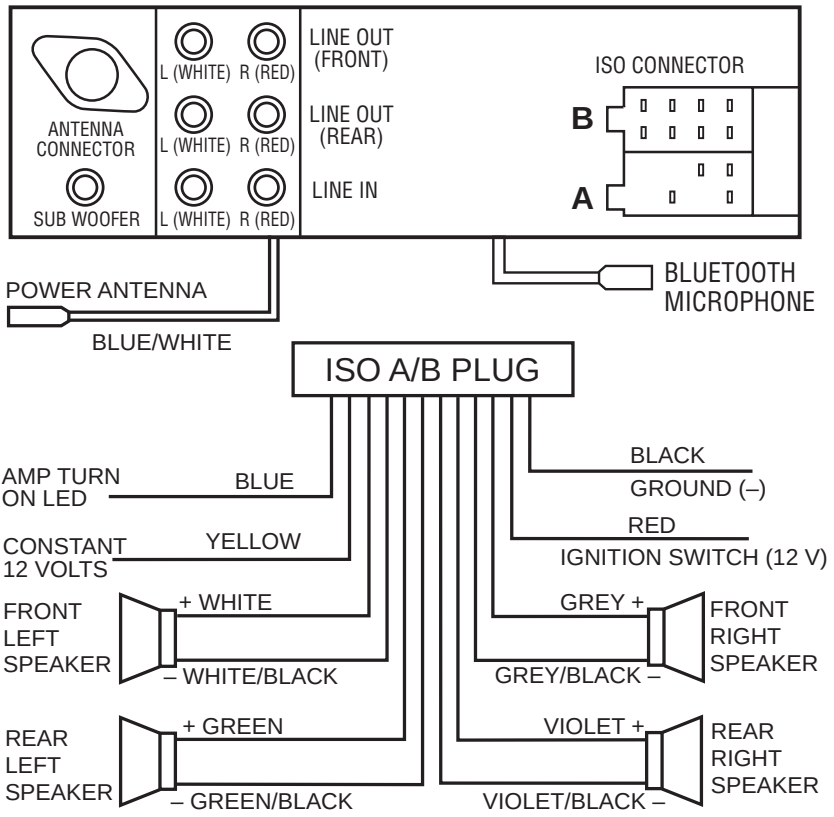
6. In active mode, press TALK button twice will redial last outgoing called number.

Here is a listing of current Bluetooth Mobile phones:

Brand	Ericsson	Ericsson	Motorola	Motorola	Motorola	Nokia	Nokia	Nokia	Nokia	Nokia	Nokia	Nokia	Nokia	Nokia	Nokia
Model	R520m	T39	E398	V3	E680i	8910	6310i	6600	N-gage	6260	6230	6680	3230	6280	N70
Checked BHF111	only support HSP Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Brand	Samsung	BlackBerry	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	Siemens	Siemens
Model	D608	8600G	T68i	T610	T630	P800	P900	P910i	K700i	K750i	W800i	W900i	S55	S65
Checked BHF111	Y	Y	Y	Y	Y	Y	only support HSP Y	Y	Y	only support HSP Y	Y	Y	Y	Y

Electrical connections



NOTE for TWO SPEAKER SYSTEMS:

1. The following wires are not used and should be isolated:
GREEN ▪ VIOLET ▪ WHITE/BLACK ▪ GREY/BLACK

2. Keep the fader control AT CENTER POSITION to maintain the existing volume level

Auxiliary input feature

This CD Receiver features an Auxiliary Input jack on the back side of the unit. An external audio source such as a portable audio player or a DVD player may be connected via this input jack.

BE HEARD

Troubleshooting

Symptom	Cause	*Solution*
No power.	The car ignition switch is not on.	*If the head unit is properly connected to the car accessory power circuits, but the engine is running, switch the ignition key to the "ACC" position.*
	The fuse is blown.	*Replace the fuse.*
Disc cannot be loaded or ejected.	There is a disc already in the CD player.	*Remove disc in player and try again.*
	Disc is inserted upside down.	*Insert the disc with the label facing up.*
	Disc is dirty or defective.	*Clean the disc, or play a new one.*
	Car interior temperature is too high.	*Allow temperature to cool down to a normal level.*
	Excess atmospheric humidity or condensation is present.	*Leave player off for an hour or so, and then try again.*
No sound.	Volume is set to minimum.	*Adjust volume to desired level.*
	Wiring not properly connected.	*Check wiring connections.*
Sound skips.	Head unit is installed at an angle of greater than 30º from horizontal.	*Adjust installation angle to less than 30º from horizontal.*
	Disc is dirty or defective.	*Clean the disc, or play a new one.*
Keys on front panel do not operate.	The built-in microprocessor is not operating properly due to noise.	*Press the RESET button.*
	Front panel is not properly fixed in place.	*Remove front panel, press RESET button, and re-insert front panel.*
Radio does not work, or the radio automatic selection function does not work.	Antenna cable not connected.	*Insert the antenna cable firmly into connector.*
	The signals are too weak to be received properly.	*Select station manually.*

Specifications

638BA

MP3-Compatible AM/FM CD Receiver

CD/MP3 PLAYER

Signal to Noise Ratio	> 60dB
Channel Separation	> 45 dB
Frequency Response	20Hz - 20 kHz

RADIO

FM Section:

Frequency range	87.5-107.9 MHz
Intermediate frequency	10.7 MHz
Sensitivity	3 µV
Stereo separation	30 dB
Signal to noise ratio	50 dB
Channel step	200 kHz

AM Section:

Frequency range	530-1710 KHz
Intermediate frequency	450 KHz
Usable Sensitivity	32 dBµV

TONE CONTROLS

Bass (at 100Hz)	+/- 10 dB
Treble (at 10kHz)	+/- 10 dB

LINE-OUT

Output	5 V (max.)
Impedance	10kOhm

AMPLIFIER

Maximum output power	80 watts x 4 channels

GENERAL

Power Supply	12V DC (10.8-15.6V allowable)
Chassis dimensions	7" x 6-1/4" x 2" (178 x 159 x 51 mm)
Weight	4.4 lb. (2 kg)

Instructions on environment protection

Do not dispose of this product in the usual household garbage at the end of its life-cycle; hand it over at a collection point for the recycling of electrical and electronic appliances. The symbol on the product, the instructions for use or the packing will inform about the methods for disposal.

The materials are recyclable as mentioned in this marking. By recycling, material re-cycling or other forms of reutilization of old appliances, you are making an important contribution to protect our environment.

Please inquire at the community administration for the authorized disposal location.

BE HEARD